Delaware Department of Transportation Division of Transportation Solutions Design Guidance Memorandum

Memorandum Number: 1-11

1. Road Design Manual 2. Bridge Design Manual 3. Utilities Design Manual

4. Real Estate Manual 5. Standard Specifications 6. Standard Construction Details

Title: Subsurface Investigation for Consultant Designed Projects

Effective date: June 1, 2003

Implementation by:	X Project	Teams, X	Bridge,	Team S	upport,		
Specifications,	Utility,	Real Es	state, X	Quality,_	DTC,	Other	M&R

I. Purpose:

To inform consultant managers of the procedures required to obtain soil drilling and subsequent soil testing services for <u>consultant designed projects</u> of structures (embankments, bridge abutments, retaining walls, etc.). For Department design projects, contact Materials & Research's Geotechnical Engineer.

See also DGM 1-9 Defining Pavement Cores and Subsurface Investigation and DGM 1-10 - Pavement Design Requirements for more details.

II. Design Guidance:

In order for the design consultant to have adequate subsurface (soils) information for design purposes, the <u>design consultants</u> must:

- Develop the subsurface investigation plan to have drilling and inspection services provided under their direction.
- Notify the consultant manager of the scope of the subsurface investigation plan and provide a boring plan sheet(s) to the Department. The consultant manager will forward the boring plan to the Materials & Research (M&R) Geotechnical Engineer
- Specify to M&R what soil testing is requested.
- Inform the Geotechnical Engineer when drilling and soil sampling is to begin and provide the name and phone number of the consultant designer who is to receive the M&R soil test information.
- Arrange to have the soil samples and copies of the field logs brought to the M&R lab within 24 hours after obtaining samples.

The Geotechnical Engineer's responsibilities are to:

- Perform, or arrange for, all soils testing required for the project as requested by the design consultant.
- Furnish completed boring logs and laboratory test summaries to the design consultant with a courtesy copy to the consultant manager.
- Provide the consultant manager regular weekly updates on the progress of the drilling/testing programs.
- Inform the consultant manager when problems arise and when the testing programs are completed.

III. Justification:

Consultants

To clarify the requirements of subsurface investigation and the responsibilities of all parties. All references in this DGM are in compliance with the November, 1999 **Del DOT Record of Decision (ROD) on Subsurface Investigations**.

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